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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: Thu May 24 09:17:59 EDT 2007

## Validated By CRFValidator v 1.0.2

Application No: 09937182 Version No: 1.0

Input Set:

Output Set:

**Started:** 2007-05-23 18:32:58.185

Artificial or Unknown found in <213> in SEQ ID (2)

**Finished:** 2007-05-23 18:32:58.448

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Total Warnings: 2

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No. of SeqIDs Defined: 2

213

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## SEQUENCE LISTING

<110> Pelicci, Pier Guiseppe

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Giorgio, Marco Migliaccio, Enrica Lanfrancone, Luisa <120> Materials and Methods Relating to Modulation of p66 Expression <130> 0380-P02669US0 <140> 09937182 <141> 2002-01-18 <150> US 09/937,182 <151> 2002-01-18 <150> PCT/GB00/01079 <151> 2000-03-22 <150> GB 9906515.3 <151> 1999-03-22 <160> 2 <170> FastSEQ for Windows Version 4.0 <210> 1 <211> 3664 <212> DNA <213> Artificial Sequence <220> <221> CDS <222> (195)...(1946) <220> <223> Synthetic Sequence <400> 1 atggggcctg aaactgtctg ggtctgagct ggggagcgga agccacttgt ccctctccct 60 acccctgcc tggcccctt gcccaaactg gcagggggc caggctgggc agcagcccct 180 ctttcacctc aact atg gat ctc ctg ccc ccc aag ccc aag tac aat cca 230 Met Asp Leu Pro Pro Lys Pro Lys Tyr Asn Pro 1 1.0 ctc cgg aat gag tct ctg tca tcg ctg gag gaa ggg gct tct ggg tcc 278 Leu Arg Asn Glu Ser Leu Ser Ser Leu Glu Glu Gly Ala Ser Gly Ser 15 20 acc ccc ccg gag gag ctg cct tcc cca tca gct tca tcc ctg ggg ccc 326 Thr Pro Pro Glu Glu Leu Pro Ser Pro Ser Ala Ser Ser Leu Gly Pro

|   | _ |   |   | _ |   |   | _ | _ | _ |   |   |   | _ | tgc<br>Cys        |     | 374 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------|-----|-----|
|   |   |   |   | _ | _ |   | _ |   | _ | - |   | _ | _ | ggg<br>Gly<br>75  | 222 | 422 |
| - |   |   |   | _ |   |   |   |   |   | - | - | - | - | gly               |     | 470 |
|   |   | - |   | - | - | _ |   |   |   |   |   |   |   | ctc<br>Leu        |     | 518 |
| _ | - | _ |   | _ | _ | _ |   |   |   |   | _ |   |   | cgg<br>Arg        |     | 566 |
| - |   |   | _ |   |   |   |   |   |   |   | _ |   |   | agc<br>Ser        |     | 614 |
| _ |   | _ |   | _ |   |   |   | _ |   |   |   | _ |   | gtc<br>Val<br>155 | _   | 662 |
|   |   |   | _ |   |   | _ | _ |   |   |   |   | _ |   | gag<br>Glu        | _   | 710 |
|   | _ |   | _ | _ | - | _ | _ |   |   |   |   |   | _ | gtc<br>Val        |     | 758 |
|   |   | - |   | _ | _ |   | _ |   | _ |   | _ |   | _ | aag<br>Lys        |     | 806 |
|   |   |   |   | _ | _ |   | _ | _ | _ | _ |   | _ |   | atc<br>Ile        | _   | 854 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   | acc<br>Thr<br>235 |     | 902 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   | atc<br>Ile        |     | 950 |
| - |   |   |   | _ |   |   |   |   |   | - |   |   |   | gat<br>Asp        | _   | 998 |

| _   |     | -   |     |     | -   | -   |     | _   | _   |     | gac<br>Asp<br>280 |     |     |     |     | 1046 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|------|
| _   | -   | _   |     |     | _   |     | _   |     | -   |     | ctt<br>Leu        | -   | _   | -   | -   | 1094 |
|     | _   |     |     |     | _   | -   |     |     | _   |     | ttc<br>Phe        |     |     |     |     | 1142 |
|     |     |     |     |     | _   | -   |     |     |     | -   | agg<br>Arg        | _   | -   |     |     | 1190 |
| _   |     |     | _   |     | _   |     |     |     | -   |     | cca<br>Pro        |     | -   |     | _   | 1238 |
|     |     |     | _   |     | _   |     | _   | _   |     |     | ttg<br>Leu<br>360 |     |     |     | -   | 1286 |
| _   | 1 T |     |     |     | _   |     | Ī., | _   |     |     | gct<br>Ala        | _   | _   |     |     | 1334 |
| _   |     |     | _   | _   |     |     | _   |     | _   |     | gct<br>Ala        |     | _   |     | _   | 1382 |
|     | _   |     | _   |     |     | -   |     | _   | _   | _   | aaa<br>Lys        | _   | _   |     |     | 1430 |
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|     | -   |     |     |     | -   | _   | -   |     |     | -   | gtg<br>Val<br>440 |     |     | -   |     | 1526 |
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|     |     | _   | _   |     | _   |     | _   |     |     |     | tgg<br>Trp        |     |     |     | _   | 1670 |
| ctg | agc | cgg | cgg | gag | gct | gag | gca | ctg | ctg | cag | ctc               | aat | ggg | gac | ttc | 1718 |

Leu Ser Arg Arg Glu Ala Glu Ala Leu Leu Gln Leu Asn Gly Asp Phe 500 495 ttg gta cgg gag agc acg acc aca cct ggc cag tat gtg ctc act ggc 1766 Leu Val Arg Glu Ser Thr Thr Pro Gly Gln Tyr Val Leu Thr Gly 520 510 515 ttg cag agt ggg cag cct aag cat ttg cta ctg gtg gac cct gag ggt 1814 Leu Gln Ser Gly Gln Pro Lys His Leu Leu Leu Val Asp Pro Glu Gly 525 530 535 540 gtg gtt cgg act aag gat cac cgc ttt gaa agt gtc agt cac ctt atc 1862 Val Val Arg Thr Lys Asp His Arg Phe Glu Ser Val Ser His Leu Ile 545 550 age tae cae atg gae aat cae ttg eee ate ate tet geg gge age gaa 1910 Ser Tyr His Met Asp Asn His Leu Pro Ile Ile Ser Ala Gly Ser Glu 560 565 570 ctg tgt cta cag caa cct gtg gag cgg aaa ctg tga tctgccctag 1956 Leu Cys Leu Gln Gln Pro Val Glu Arg Lys Leu \* 575 580 cgctctcttc cagaagatgc cctccaatcc tttccaccct attccctaac tctcgggacc 2016 tcgtttggga gtgttctgtg ggcttggcct tgtgtcagag ctgggagtag catggactct 2076 gggtttcata tccagctgag tgagagggtt tgagtcaaaa gcctgggtga gaatcctgcc 2136 tctccccaaa cattaatcac caaagtatta atgtacagag tggcccctca cctgggcctt 2196 tectgtgeea acctgatgee cetteceeaa gaaggtgagt gettgteatg gaaaatgtee 2256 tgtggtgaca ggcccagtgg aacagtcacc cttctgggca agggggaaca aatcacacct 2316 ctgggcttca gggtatccca gacccctctc aacacccgcc cccccatgt ttaaactttg 2376 tgcctttgac catctcttag gtctaatgat attttatgca aacagttctt ggacccctga 2436 attetteaat gaeagggatg ceaacacett ettggettet gggaeetgtg ttettgetga 2496 geaccetete eggtttgggt tgggataaca gaggeaggag tggeagetgt eeeeteteee 2556 tggggatatg caaccettag agattgeece agageeceae teeeggeeag gegggagatg 2616 gacccctccc ttgctcagtg cctcctggcc ggggcccctc accccaaggg gtctgtatat 2676 acatttcata aggectgeec teccatgttg catgectatg tactetgege caaagtgeag 2736 cccttcctcc tgaagcctct gccctgcctc cctttctggg agggcggggt gggggtgact 2796 gaatttgggc ctcttgtaca gttaactctc ccaggtggat tttgtggagg tgagaaaagg 2856 ggcattgaga ctataaagca gtagacaatc cccacatacc atctgtagag ttggaactgc 2916 attettttaa agttttatat geatatattt tagggetget agaettaett teetatttte 2976 ttttccattq cttattcttq aqcacaaaat qataatcaat tattacattt atacatcacc 3036 tttttgactt ttccaagccc ttttacagct cttggcattt tcctcgccta ggcctgtgag 3096 gtaactggga tegeacettt tataccagag acetgaggea gatgaaattt attteeatet 3156 aggactagaa aaacttgggt ctcttaccgc gagactgaga ggcagaagtc agcccgaatg 3216 cctgtcagtt tcatggaggg gaaacgcaaa acctgcagtt cctgagtacc ttctacaggc 3276 ccggcccagc ctaggcccgg ggtggccaca ccacagcaag ccggccccc ctcttttggc 3336 cttgtggata agggagagtt gaccgttttc atcctggcct ccttttgctg tttggatgtt 3396 tccacgggtc tcacttatac caaagggaaa actcttcatt aaagtccgta tttcttctaa 3456 aaaaaaaaa aaaaaaatac atttatacat cacetttttg acttttccaa geeettttac 3516 agetettgge atttteeteg eetaggeetg tgaggtaact gggategeae ettttatace 3576 agagacctga ggcagatgaa atttatttcc atctaggact agaaaaactt gggtctctta 3636 3664 ccgcgagact gagaggcaga agtcagcc <210> 2 <211> 583 <212> PRT

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| Met<br>1   | Asp        | Leu        | Leu        | Pro<br>5   | Pro        | Lys        | Pro        | Lys        | Tyr<br>10  | Asn        | Pro        | Leu        | Arg        | Asn<br>15  | Glu        |
| Ser        | Leu        | Ser        | Ser<br>20  | Leu        | Glu        | Glu        | Gly        | Ala<br>25  | Ser        | Gly        | Ser        | Thr        | Pro<br>30  | Pro        | Glu        |
| Glu        | Leu        | Pro<br>35  | Ser        | Pro        | Ser        | Ala        | Ser<br>40  | Ser        | Leu        | Gly        | Pro        | Ile<br>45  | Leu        | Pro        | Pro        |
| Leu        | Pro<br>50  | Gly        | Asp        | Asp        | Ser        | Pro<br>55  | Thr        | Thr        | Leu        | СЛа        | Ser<br>60  | Phe        | Phe        | Pro        | Arg        |
| Met<br>65  | Ser        | Asn        | Leu        | Arg        | Leu<br>70  | Ala        | Asn        | Pro        | Ala        | Gly<br>75  | Gly        | Arg        | Pro        | Gly        | Ser<br>80  |
| Lys        | Gly        | Glu        | Pro        | Gly<br>85  | Arg        | Ala        | Ala        | Asp        | Asp<br>90  | Gly        | Glu        | Gly        | Ile        | Asp<br>95  | Gly        |
| Ala        | Ala        | Met        | Pro<br>100 | Glu        | Ser        | Gly        | Pro        | Leu<br>105 | Pro        | Leu        | Leu        | Gln        | Asp<br>110 | Met        | Asn        |
| Lys        | Leu        | Ser<br>115 | Gly        | Gly        | Gly        | Gly        | Arg<br>120 | Arg        | Thr        | Arg        | Val        | Glu<br>125 | Gly        | Gly        | Gln        |
| Leu        | Gly<br>130 | Gly        | Glu        | Glu        | Trp        | Thr<br>135 | Arg        | His        | Gly        | Ser        | Phe<br>140 | Val        | Asn        | Lys        | Pro        |
| Thr<br>145 | Arg        | Gly        | Trp        | Leu        | His<br>150 | Pro        | Asn        | Asp        | Lys        | Val<br>155 | Met.       | Gly        | Pro        | Gly        | Val<br>160 |
| Ser        | Tyr        | Leu        | Val        | Arg<br>165 | Tyr        | Met        | Gly        | Cys        | Val<br>170 | Glu        | Val        | Leu        | Gln        | Ser<br>175 | Met        |
| Arg        | Ala        | Leu        | Asp<br>180 | Phe        | Asn        | Thr        | Arg        | Thr<br>185 | Gln        | Val        | Thr        | Arg        | Glu<br>190 | Ala        | Ile        |
| Ser        | Leu        | Val<br>195 | Суз        | Glu        | Ala        | Val        | Pro<br>200 | Gly        | Ala        | Lys        | Gly        | Ala<br>205 | Thr        | Arg        | Arg        |
| Arg        | Lys<br>210 | Pro        | Суз        | Ser        | Arg        | Pro<br>215 | Leu        | Ser        | Ser        | Ile        | Leu<br>220 | Gly        | Arg        | Ser        | Asn        |
| Leu<br>225 | ГЛЗ        | Phe        | Ala        | Gly        | Met<br>230 | Pro        | Ile        | Thr        | Leu        | Thr<br>235 | Val        | Ser        | Thr        | Ser        | Ser<br>240 |
| Leu        | Asn        | Leu        | Met        | Ala<br>245 | Ala        | Asp        | Сла        | Lys        | Gln<br>250 | Ile        | Ile        | Ala        | Asn        | His<br>255 | His        |
| Met        | Gln        | Ser        | Ile<br>260 | Ser        | Phe        | Ala        | Ser        | Gly<br>265 | Gly        | Asp        | Pro        | Asp        | Thr<br>270 | Ala        | Glu        |
| Tyr        | Val        | Ala<br>275 | Tyr        | Val        | Ala        | Lys        | Asp<br>280 | Pro        | Val        | Asn        | Gln        | Arg<br>285 | Ala        | Cys        | His        |
| Ile        | Leu<br>290 | Glu        | Cys        | Pro        | Glu        | Gly<br>295 | Leu        | Ala        | Gln        | Asp        | Val<br>300 | Ile        | Ser        | Thr        | Ile        |
| Gly<br>305 | Gln        | Ala        | Phe        | Glu        | Leu<br>310 | Arg        | Phe        | Lys        | Gln        | Tyr<br>315 | Leu        | Arg        | Asn        | Pro        | Pro<br>320 |
| Lys        | Leu        | Val        | Thr        | Pro<br>325 | His        | Asp        | Arg        | Met        | Ala<br>330 | Gly        | Phe        | Asp        | Gly        | Ser<br>335 | Ala        |
| Trp        | Asp        | Glu        | Glu<br>340 | Glu        | Glu        | Glu        | Pro        | Pro<br>345 | Asp        | His        | Gln        | Tyr        | Tyr<br>350 | Asn        | Asp        |
| Phe        | Pro        | Gly<br>355 | Lys        | Glu        | Pro        | Pro        | Leu<br>360 | Gly        | Gly        | Val        | Val        | Asp<br>365 | Met        | Arg        | Leu        |
|            | Glu<br>370 |            |            |            |            | 375        |            |            |            |            | 380        |            |            |            |            |
| Gln<br>385 | Thr        | Pro        | Ser        | His        | Leu<br>390 | Gly        | Ala        | Thr        | Leu        | Pro<br>395 | Val        | Gly        | Gln        | Pro        | Val<br>400 |
| Gly        | Gly        | Asp        | Pro        | Glu<br>405 | Val        | Arg        | LÀS        | Gln        | Met<br>410 | Pro        | Pro        | Pro        | Pro        | Pro<br>415 | Cys        |

| Pro | Gly | Arg | Glu | Leu | Phe | Asp | Asp | Pro | Ser | Tyr | Val | Asn | Val | Gln | Asn |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Leu | Asp | Lys | Ala | Arg | Gln | Ala | Val | Gly | Gly | Ala | Gly | Pro | Pro | Asn | Pro |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Ala | Ile | Asn | Gly | Ser | Ala | Pro | Arg | Asp | Leu | Phe | Asp | Met | rys | Pro | Phe |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Glu | Asp | Ala | Leu | Arg | Val | Pro | Pro | Pro | Pro | Gln | Ser | Val | Ser | Met | Ala |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Glu | Gln | Leu | Arg | Gly | Glu | Pro | Trp | Phe | His | Gly | Lys | Leu | Ser | Arg | Arg |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Glu | Ala | Glu | Ala | Leu | Leu | Gln | Leu | Asn | Gly | Asp | Phe | Leu | Val | Arg | Glu |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
| Ser | Thr | Thr | Thr | Pro | Gly | Gln | Tyr | Val | Leu | Thr | Gly | Leu | Gln | Ser | Gly |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |
| Gln | Pro | Lys | His | Leu | Leu | Leu | Val | Asp | Pro | Glu | Gly | Val | Val | Arg | Thr |
|     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |
| Lys | Asp | His | Arg | Phe | Glu | Ser | Val | Ser | His | Leu | Ile | Ser | Tyr | His | Met |
| 545 |     |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |
| Asp | Asn | His | Leu | Pro | Ile | Ile | Ser | Ala | Gly | Ser | Glu | Leu | Cys | Leu | Gln |
|     |     |     |     | 565 |     |     |     |     | 570 |     |     |     |     | 575 |     |
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |